

## TRANSMITTAL

Electronic Version v1.1

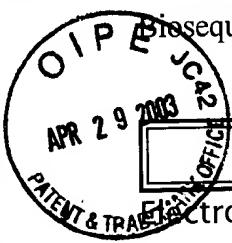
Stylesheet Version v1.1.0

Title of Invention	SCREENING ASSAYS FOR HEDGEHOG AGONISTS AND ANTAGONISTS							
Application Number:	09/711724	*09/711724*						
Date:	2000-11-13							
First Named Applicant:	Clifford Tabin							
Confirmation Number:	7675							
Attorney Docket Number:	HMSU-P14-006							
<p>I hereby certify that the use of this system is for OFFICIAL correspondence between patent applicants or their representatives and the USPTO. Fraudulent or other use besides the filing of official correspondence by authorized parties is strictly prohibited, and subject to a fine and/or imprisonment under applicable law.</p> <p>I, the undersigned, certify that I have viewed a display of document(s) being electronically submitted to the United States Patent and Trademark Office, using either the USPTO provided style sheet or software, and that this is the document(s) I intend for initiation or further prosecution of a patent application noted in the submission. This document(s) will become part of the official electronic record at the USPTO.</p> <table border="1"> <tr> <th>Submitted by:</th> <th>Elec. Sign.</th> <th>Sign. Capacity</th> </tr> <tr> <td>David P. Halstead Registered Number: 44,735</td> <td>DYH</td> <td>Attorney</td> </tr> </table>			Submitted by:	Elec. Sign.	Sign. Capacity	David P. Halstead Registered Number: 44,735	DYH	Attorney
Submitted by:	Elec. Sign.	Sign. Capacity						
David P. Halstead Registered Number: 44,735	DYH	Attorney						

RECEIVED  
MAY 01 2003  
TECH CENTER 1600/2000

Documents being submitted	Files
us-bio-seq-trans	HMSU-P14-006SubSequenceListing04232002-usbios.xml
	us-bio-seq-trans.dtd
	us-bio-seq-trans.xsl
sequence-listing	HMSU-P14-006SubstituteSequence.txt
Comments	This Substitute CRF Biosequence is being submitted as part of the Response to the Office Communication mailed from the Office on April 17, 2003.

## AMINO ACID AND/OR NUCLEOTIDE SEQUENCE LISTING SUBMISSION



Electronic Version v13  
Stylesheet Version v01

RECEIVED  
MAY 01 2003  
TECH CENTER 1600/2000

This is a request for filing the electronic Computer Readable Form copy of a sequence listing via the Electronic Filing System for a patent application under 37 CFR 1.821-1.825 instead of via one of the physical media specified in 37 CFR 1.824(c).

This communication has an attached file which is an electronic copy of the amino acid and/or nucleotide sequence listing for the previously mentioned United States patent application.

The electronic copy submitted herewith is the Computer Readable Form (CRF), as required by 1.821(e).

Any applicable fees associated with the filing of the electronic copy have been paid.

This submission does not go beyond the disclosure of the application as originally filed (i.e., contains no new matter). It may be in addition to an original CRF, filed to comply with the sequence rules.

This submission in electronic form comprises only the CRF of 37 CFR 1.821(e). I acknowledge that I am responsible for all additional requirements of amino acid and/or nucleotide sequence listing submissions as specified in 37 CFR 1.821 - 1.825.

This submission does not go beyond the disclosure of the application as originally filed (i.e., contains no new matter), and/or is in addition to an original CRF filed to comply with the sequence rules. If not made to comply with an originally filed CRF, it is identical to the sequences disclosed in the application as originally filed and/or the paper copy of the sequence listing as originally filed.

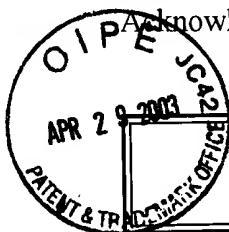
I hereby certify that this correspondence is being transmitted to the United States Patent and Trademark Office on the following date: 2003-04-23

Name: David P. Halstead  
Electronic Signature Mark: DYH

Attachment description:

Substitute CRF Biosequence

Compression software used:

UNITED STATES PATENT AND TRADEMARK OFFICE  
ACKNOWLEDGEMENT RECEIPTElectronic Version 1.1  
Stylesheet Version v1.1.1RECEIVED  
MAY 01 2003  
TECH CENTER 1600  
1600 1600

Title of Invention	SCREENING ASSAYS FOR HEDGEHOG AGONISTS AND ANTAGONISTS
--------------------	--

Submission Type: BIO Sequence Filing

Application Number: 09/711724

\*09/7

EFS ID: 40154

Server Response:

Confirmation Code	Message
ISVR1	Successfully received the submission
ICON1	7675
ISYS5	Filename= N/A BusinessRule= Validation System/Function Information. #Supporting Msg:Server unable to validate the Confirmation/Application numbers at this time. These numbers will be checked by PTO personnel later.

First Named Applicant: Clifford Tabin

Attorney Docket Number: HMSU-P14-006

Timestamp: 2003-04-23 16:06:09 EDT

From: us

File Listing:

Doc. Name	File Name
us-bio-seq-trans	HMSU-P14-006SubSequenceListing04232002-usbios.xml
us-bio-seq-trans	us-bio-seq-trans.dtd
us-bio-seq-trans	us-bio-seq-trans.xsl
sequence-listing	HMSU-P14-006SubstituteSequence.txt
	HMSU-P14-006SubSequenceListing04232002-

package-data	pkda.xml	
package-data	package-data.dtd	
package-data	us-package-data.xsl	
		Total files size

Message Digest: 9c92918b16e36a352ef023cb977ddbd76250786

Digital Certificate Holder cn=David P. Halstead,ou=Registered  
Name: Attorneys,ou=Patent and Trademark  
Office,ou=Department of Commerce,o=U.S.  
Government,c=US